1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name/designation: Caltech QC Glass Coat

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Liquid applied waterproofing membrane.

Recommended restrictions: Reserved for industrial and professional use.

1.3 Supplier details

Alumasc Building Products Ltd
White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG
Tel: +44 (0)1744 648400
e-mail: technical@alumascroofing.com

1.4 Emergency telephone number

Association / Organisation:National Poisons Information Service
Emergency telephone numbers:0344 892 0111 (Healthcare professionals only)
Other emergency telephone numbersAlumasc Building Products: +44 17 4464 8400
(Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP][1]:
Eye Dam. 1; H318

2.2 Label elements

Hazard pictures:

Signal word: Danger.

Hazardous component(s) to be indicated on label: 3-(Trimethoxysilyl)-1-propanamine.

Hazard statements: H318: Causes serious eye damage.

Precautionary statements prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection/ hearing protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.

Further information: EUH208: Contains Trimethoxyvinylsilane. May produce an allergic reaction.

Hazardous component(s) to be indicated on label: 3-(Trimethoxysilyl)-1-propanamine

2.3 Other hazards

Not available.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

3.1 Substances

See 'Composition on ingredients' in Section 3.2.

3.2 Mixtures

Other data:
This mixture contains ≥ 1% titanium dioxide (CAS 13463-67-7) The Annex VI classification of Titanium dioxide does not apply to this mixture according to its Note 10.

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration
3-(Trimethoxysilyl)-1-propanamine	CAS No.: 13822-56-5 EC-No.: 237-511-5 REACH No.: 01-2119510159-45-XXXX	Skin Irrit. 2; H315 Eye Dam. 1; H318	1.0 - 5.0 % by weight
trimethoxyvinylsilane	CAS No.: 2768-02-7 EC-No.: 220-449-8 Index-No.: 014-049-00-0	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Sens. 1; H317	0.1 - 1.0 % by weight

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Move out of dangerous area.
Take off all contaminated clothing immediately.
Do not leave the victim unattended.
Show this safety data sheet to the doctor in attendance.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
If skin irritation occurs, get medical advice/ attention.

Inhalation: Move to fresh air.
If symptoms persist, call a physician.
Show this safety data sheet to the doctor in attendance.

Ingestion: Rinse mouth.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11.

4.3 Indication of any immediate medical attention and special treatment needed.

Immediate medical attention. Treat symptomatically.

5. FIRE-FIGHTING MEASSURES

5.1 Extinguishing media

Suitable extinguishing media:
Carbon dioxide (CO2), Foam, Water spray, Dry powder.

Extinguishing media which must not be used for safety reasons:
High volume water jet.

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:
Benzene, methanol, nitrous gases
Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for fire-fighters

Special protective equipment for firefighting:
In the event of fire, wear self-contained breathing apparatus.

Additional information on firefighting:
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Do not allow run-off from firefighting to enter drains or water courses.

6. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Cordon off the contaminated area, keep unauthorized persons away!
Do not breathe dust or mist.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

Disposal considerations see also Section 13.

6.5 Additional information

Treat recovered material as described in the section "Disposal considerations".

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling:
Handle and open container with care. Avoid contact with skin and eyes.
Ensure adequate ventilation, especially in confined areas.

Precautions:
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8. Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements:
Keep in properly labelled containers.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage must be in accordance with the BetrSichV (Germany).
Keep in a cool, well-ventilated place.

TRGS 510:
10.

Recommended storage temperature:
Keep in a dry, cool place.

Advice on protection against fire and explosion:
Methanol is given off during processing and by reaction with water.
Vapours may form explosive mixtures with air. Keep away from sources of ignition - No smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

methanol:

Great Britain					
Long term exposure value/ ppm	**Long term exposure value/ mg/m3**	**Short term exposure value / ppm**	**Short term exposure value / mg/m3**	**Note**	**Source**
200	266	250	333	Sk	EH40/2005 Workplace exposure limits (2011)

Long-term exposure value/ mg/ m3	**Long-term exposure value/ ppm**	**Note**	**Issuing date**	**Source**
260	200	Skin	2006/15	DIRECTIVE 2009/161/EU

8.2 Exposure controls

8.2.1. Appropriate engineering Controls:	Ensure adequate ventilation, especially in confined areas. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
8.2.2. Personal protection:	
Eye and face protection:	Tightly fitting safety goggles.
Skin protection:	Wear suitable protective equipment. Long sleeved clothing
Hand protection:	Protective gloves complying with EN 374.Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Unsuitable material Woven fabric, leather gloves Suitable material Nitriles Material thickness 0,38 mm Break through time <25 min
Body protection:	Wear suitable protective equipment. Long sleeved clothing
Respiratory protection: Remarks:	Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respiratory protection is not necessary if room is well ventilated. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Recommended Filter type: Respirator with filter ABEK-P (brown / grey / yellow / green / white stripes)
General protective and hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Wash hands be- fore breaks and at the end of workday. Use protective skin cream before handling the product. Avoid contact with the skin and the eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

Physical state:	Liquid	**Density [g/cm³]**	1,10 g/cm3
Form:	Liquid	**Pressure**	20°C
Colour:	colourless, clear	**Vapour pressure (kPa):**	not determined
Odour:	characteristic	**Vapour density (Air = 1):**	not determined
Odour threshold:	Not available	**Water solubility [g/l]**	insoluble
pH (as supplied):	Not applicable	**Partition coefficient n-octanol /water (log P O/W)**	not determined
Melting point/freezing point (°C):	Not determined	**Viscosity, dynamic [kg/(m*s)]**	1.700 mPas*s
Boiling point (°C):	Not determined	**Temperature [°C]**	20 °C
Flash point (°C):	71°C	**Measuring method**	Haake-Viscotester
Ignition temperature (°C)	330 °C	**Explosive properties**	Not relevant
Evaporation rate [kg/(s m²)]:	not determined		

10. STABILITY AND REACTIVITY

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Avoid moisture.

10.5 Incompatible materials

Materials to avoid: Never mix with water, acids and / or alkalis! Possibility of hazardous reactions methanol.

11. TOXICOLOGICAL INFORMATION

11.1 Information on the hazard classes within the meaning of Regulation (EU) No. 1272/2008

Oral toxicity [mg/kg]:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine			
Value	**Test criterion**	**Test species**	**Source**
2970 mg/kg	D50	at	Company data

trimethoxyvinylsilane				
Value	**Test criterion**	**Test species**	**Measuring method**	**Source**
7120 mg/kg	LD50	Rat	OECD Test Guideline 401	Company data

Dermal toxicity [mg/kg]:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine			
Value	**Test criterion**	**Test species**	**Source**
11300 mg/kg	LD50	Rabbit	Company data

trimethoxyvinylsilane				
Value	**Test criterion**	**Test species**	**Measuring method**	**Source**
3200 mg/kg	LD50	Rabbit	OECD Test Guideline 402	Company data

LC50 Inhalation 4h for vapours [mg/l]:
Hazardous ingredients:

trimethoxyvinylsilane			
Value	**Test criterion**	**Test species**	**Source**
16,8 mg/l	LD50	at	Company data

Irritant effect on skin:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine	
Value	**Source**
Skin Irritation	Company data

trimethoxyvinylsilane		
Value	**Test species**	**Source**
No skin irritation	Rabbit	Company data

Irritant effect on eyes:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine	
Value	**Source**
May cause irreversible eye damage.	Company data

trimethoxyvinylsilane			
Value	**Measuring method**	**Test species**	**Source**
No eye irritation	OECD Test Guideline 405	Rabbit	Company data

Irritant effect on the respiratory tract:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine	
Value	**Source**
None known.	Company data

Sensitization:
Hazardous ingredients:

trimethoxyvinylsilane						
Value	**Measuring method**	**Test species**	**Exposure type**	**Remarks**	**Note**	**Source**
Skin sensitization negative	OECD Test Guideline 406	guinea pig	dermal			Company data
Skin sensitization negative	OECD 429		Skin	Angabe des Herstellers	< 5 % Skin sensitization Negative Human experience	Company data

Mutagenicity:
Hazardous ingredients:

trimethoxyvinylsilane	
Value	**Source**
No known effect.	Company data

Carcinogenic effects:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine	
Value	**Source**
No known effect.	Company data

trimethoxyvinylsilane	
Value	**Source**
no data available	Company data

Reproduction toxicity:
Hazardous ingredients:

trimethoxyvinylsilane	
Value	**Source**
No known effect.	Company data

Specific target organ toxicity (single exposure) [mg/kg]:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine	
Value	**Source**
no data available	Company data

trimethoxyvinylsilane	
Value	**Source**
no data available	Company data

Specific target organ toxicity (repeated exposure) [mg/kg]:
Hazardous ingredients:

trimethoxyvinylsilane	
Value	**Source**
No known effect.	Company data

11.2 Additional information

Experience in practice:
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irritating to eyes, respiratory system and skin. Irritating to mucous membranes.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish [mg/l]:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine					
Value	**Test criterion**	**Test species**	**Measuring method**	**Exposure duration [h]**	**Source**
934 mg/l	LC50	Brachydanio rerio (zebra fish)	OECD Test Guideline 203	96 h	Company data

trimethoxyvinylsilane				
Value	**Test criterion**	**Test species**	**Exposure duration [h]**	**Source**
191 mg/l	LC50	Oncorhynchus mykiss (rainbow trout))	96 h	Company data

Toxicity to daphnia [mg/l]:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine					
Value	**Test criterion**	**Test species**	**Exposure duration [h]**	**Measuring method**	**Source**
331 mg/l	EC50	Daphnia magna water flea)	48 h	OECD Test Guideline 202	Company data

trimethoxyvinylsilane					
Value	**Test criterion**	**Test species**	**Exposure duration [h]**	**Measuring method**	**Source**
169 mg/l	EC50	Daphnia magna (water flea)	48 h	OECD Test Guideline 202	Company data

Toxicity to algae [mg/l]:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine					
Value	**Test criterion**	**Test species**	**Exposure duration [h]**	**Measuring method**	**Source**
647 mg/l	EC50	Desmodesmus subspicatus	72 h	OECD Test Guideline 201	Company data

trimethoxyvinylsilane				
Value	**Test criterion**	**Test species**	**Exposure duration [h]**	**Source**
210 mg/l	IC50	Scenedesmus capricornutum (fresh water algae)	72 h	Company data

NOEC (daphnia)) [mg/l]:
Hazardous ingredients:

trimethoxyvinylsilane		
Value	**Test species**	**Source**
28 mg/l	Daphnia magna (Water flea)	Company data

NOEC (daphnia)) [mg/l]:
Hazardous ingredients:

trimethoxyvinylsilane			
Value	**Test species**	**Exposure duration [h]**	**Source**
25 mg/l	Scenedesmus capricornutum (fresh water algae)	72 h	Company data

12.2 Persistence and degradability

Biodegradability:
Hazardous ingredients:

3-(Trimethoxysilyl)-1-propanamine	
Value	**Source**
Not readily biodegradable.	Company data

trimethoxyvinylsilane	
Value	**Source**
Not readily biodegradable.	Company data

12.3 Bioaccumulation potential

Bioaccumulation:
Hazardous ingredients:

trimethoxyvinylsilane	
Value	**Source**
Does not bioaccumulate.	Company data

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination:
This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.7 Other adverse effects

Further information on ecology:
We have no quantitative data concerning the ecological effects of this product.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Considerations:	Disposal of this product and its packaging must comply with all applicable environmental protection and waste disposal legislation, including any requirements set by local authorities. Any unwanted or non-recyclable material should be disposed of through a licensed waste disposal contractor. Transportation of such waste may be subject to ADR (International Carriage of Dangerous Goods by Road) regulations and must be managed in accordance with those requirements.
Waste code:	08 01 11* waste paint and varnish containing organic solvents or other hazardous substances.
Special precautions:	This material and its container must be disposed of in a safe way. Caution should be exercised when handling empty containers that have not been properly cleaned or rinsed, as they may retain hazardous residues. Spillage and wash water from cleaning tools must be prevented from entering soil, watercourses, drains, or sewer systems. Empty containers should be directed to authorised waste disposal or appropriate local recycling facilities.
Further information available via:	https://www.alumascroofing.com/downloads/disposal-guides/

14. TRANSPORT INFORMATION

Labels required:

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	Not applicable.	Not applicable.	Not applicable.
14.2 Description of the goods	Non dangerous good	Non dangerous good	Non dangerous good
14.3 Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental hazards	Not applicable.	Not applicable.	Not applicable.

14.7. Bulk transport by sea according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not relevant

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Additional regulations: Additionally, observe any national regulations!

16. OTHER INFORMATION

Modifications since last version. Modifications of the previous version are denoted with an asterisk (*).

Relevant H-phrases

H226: Flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
EUH208: Contains Trimethoxyvinylsilane. May produce an allergic reaction.

Wording of the hazard classes:

Skin Irrit.: Skin irritation
Eye Dam.: Serious eye damage
Flam. Liq.: Flammable liquid

Acute Tox.: Acute toxicity
Skin Sens.: Skin sensitization

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]:

Classification	Evaluation
Eye Dam. 1; H318	Calculated

SDS version summary:

Version	Date of Update	Section Updated
1.1	03/04/2023	Template Change
2.0	27/05/2025	Section 13 update

Other information:
The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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